

| Application/Control No | Α | pp | lica | tion | /Con | itro | l No |
|------------------------|---|----|------|------|------|------|------|
|------------------------|---|----|------|------|------|------|------|

10/690,570

ISHIKAWA, HIROTAKA

Reexamination

Applicant(s)/Patent under

Examiner

Art Unit

Jasson H. Yoo

3714

| √ | Rejected |
|----------|----------|
| = | Allowed |

(Through numeral)
Cancelled

Cancelled N Non-Elected

Restricted I Interference

| Α | Appeal |
|---|----------|
| 0 | Objected |

| Cla | Date | | | | | | | | | |
|--------------------------------------------------|----------------------------------------------|----------------------|--------------------------------------------------|--------------|--------------|--------------------------------------------------|--------------|----------------------------------------------------|--------------|-----------------|
| | | | | | | | | | | |
| Final | Original | z < < < < < 11/12/07 | | | | | | | | |
| | | 1 | | | \dashv | - | - | \dashv | | \dashv |
| _ | 1 2 3 4 5 6 | ij | | | | | | | | \dashv |
| | ~ | J | | | | | _ | | - | |
| | 4 | j | \vdash | \vdash | | \vdash | - | \dashv | \vdash | \dashv |
| | 5 | 1 | - | | | - | | - | \vdash | \dashv |
| | -6 | N | - | | | | _ | - | | \dashv |
| | 7 | N | | | _ | | | | - | - |
| | 8 | N | | | | | | | - | \dashv |
| | 8 9 | N | | | | - | | | | |
| | 10 | | | | | | | - | _ | \dashv |
| - | 11 | N | H | _ | - | _ | _ | _ | | \dashv |
| | 12 | J | \vdash | | - | | | - | _ | \dashv |
| | 13 | V | | | | | - | | H | \dashv |
| | 14 | H | H | | | | \vdash | | | \dashv |
| <u> </u> | 11 12 13 14 15 16 17 18 | \vdash | | \vdash | | - | | Н | \vdash | \dashv |
| | 16 | \vdash | | | | ┝ | | | | \dashv |
| | 17 | | | | - | | - | - | \vdash | \dashv |
| | 18 | - | - | - | - | - | - | | ⊢ | |
| | 10 | ⊢ | \vdash | | \vdash | H | ⊢ | _ | H | \dashv |
| | 20 | ┢ | _ | | ┝ | _ | \vdash | \vdash | H | |
| _ | 21 | ⊢ | | \vdash | _ | \vdash | H | \vdash | H | |
| | 22 | | - | - | - | - | - | - | \vdash | - |
| _ | 20 21 22 23 24 | ⊢ | | | _ | | <u> </u> | H | - | |
| | 24 | ⊢ | | ⊢ | <u> </u> | — | - | | | |
| | 25 | ├ | ├ | | | | - | - | | |
| | 25 26 27 | ├ | - | \vdash | _ | ┝ | <u> </u> | \vdash | \vdash | |
| \vdash | 27 | | | Н | | _ | - | \vdash | ⊢ | |
| | 28 | - | | | | - | | | - | |
| | 20 | ┢ | | | - | - | | \vdash | \vdash | \dashv |
| \vdash | 28 29 30 | \vdash | | Н | \vdash | \vdash | \vdash | Н | ┝ | |
| | 31 | ┢ | | H | - | | ┝ | \vdash | \vdash | \dashv |
| | 31 32 | 一 | _ | | | _ | | Н | \vdash | = |
| _ | 33 | \vdash | | H | \vdash | _ | <u> </u> | | | |
| | 33 34 | | - | | - | | \vdash | | \vdash | \vdash |
| | 35 | \vdash | | \vdash | \vdash | | | \vdash | | Н |
| | 36 | 一 | \vdash | \vdash | \vdash | \vdash | \vdash | _ | \vdash | $\vdash \vdash$ |
| | 36 37 | ╁ | | \vdash | | | \vdash | - | \vdash | $\vdash \vdash$ |
| | 38 | | | | | | | \vdash | \vdash | $\vdash \vdash$ |
| | 39 | H | \vdash | \vdash | | | - | \vdash | | \vdash |
| | 40 | t^- | \vdash | \vdash | \vdash | \vdash | \vdash | | \vdash | H |
| | 41 | 1 | \vdash | \vdash | \vdash | | | | \vdash | Н |
| | 42 | | | T | | | | | \vdash | \vdash |
| | 43 | | | | | 1 | \vdash | | T | Н |
| | 44 | \vdash | | \vdash | | \vdash | | | T | Н |
| - | 45 | | | | | | | | \vdash | Н |
| | 46 | \vdash | | \vdash | t | | T | \vdash | \vdash | H |
| | 47 | \vdash | t^- | | \vdash | \vdash | t^- | T | T | H |
| | 48 | | | | | \vdash | | T | \vdash | H |
| | 49 | | | 1 | \vdash | | \vdash | \vdash | \vdash | Н |
| | 50 | t | Ι. | T | | | T | | - | \vdash |
| | | _ | <u>. </u> | | | | | Ь_ | | |

| Claim | | Date | | | | | | | | | |
|----------|----------------------|------------------|----------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------|--------------|----------|--------------------------------------------------|----------------|--|
| | | | | | | | | | | - | |
| a | Original | | | | | | | | | | |
| Final | iĝi | | | | | | | | | | |
| | Ō | | | | | | | | | | |
| | 51 | | _ | _ | | Н | | | | _ | |
| | 51 | | | | | | | _ | | | |
| | 52 53 | _ | | | - | | | _ | | _ | |
| | 53 | _ | <u> </u> | | | | | _ | | | |
| <u> </u> | 54 | _ | _ | _ | _ | _ | | <u> </u> | _ | | |
| | 55 | | | | | | | _ | | | |
| | 56 | | | | _ | | | | | | |
| | 57 | | _ | | | | | | | | |
| | 58 59 | | | <u> </u> | _ | <u>. </u> | | | _ | | |
| | 59 | | | | | | | | | | |
| L | 60 | | _ | | | | | | | | |
| | 61 | | L | | | | | | | | |
| | 61 62 | | L | L | L | | | L | L | | |
| | 63 | | _ | | | | | | | | |
| | 64 65 | | | | | | | | | | |
| | 65 | | | | | | | | | | |
| | 66 | | | | \Box | | | | Г | | |
| | 67 | | | | | <u> </u> | | | <u> </u> | | |
| | 68 | _ | - | \vdash | | \vdash | | | | | |
| | 69 | \vdash | \vdash | | | \vdash | \vdash | ┢ | \vdash | | |
| | 69 70 | ┢ | ┢ | ╁ | | \vdash | ┢ | | | - | |
| | 71 | ┢ | ┝ | ╁ | ⊢ | \vdash | ┝ | ┝ | ╁─ | - | |
| | 71 72 73 74 | | - | - | - | | | | - | | |
| | 72 | ├ | H | _ | ⊢ | ⊢ | _ | | \vdash | | |
| | 74 | | | | | | | ├ | - | - | |
| | 75 | | ├ | | - | | | - | <u> </u> | _ | |
| | 75 76 | ┡ | _ | | _ | ┞ | | _ | <u> </u> | _ | |
| | 76 | _ | <u> </u> | _ | ⊢ | ⊢ | _ | <u>'</u> | ⊢ | | |
| | 77 | | | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | _ | |
| | 78 79 | <u> </u> | <u> </u> | _ | _ | <u> </u> | <u> </u> | <u> </u> | <u> </u> | _ | |
| | 79 | _ | <u> </u> | _ | _ | _ | \vdash | <u> </u> | <u> </u> | _ | |
| | 80 | ļ | _ | <u> </u> | <u> </u> | | | | | | |
| | 81 | <u> </u> | <u> </u> | <u> </u> | _ | <u>_</u> | <u> </u> | <u> </u> | L | | |
| | 82 | L | | | _ | | | L | | | |
| | 83 | | | | | | | | | _ | |
| | 84 | _ | _ | | | | _ | | ļ | | |
| | 85 | | · | | _ | L | L | | L | _ | |
| | 86 | <u>.</u> | | L | <u></u> | | | | | L | |
| | 87 | | | | | | | | | | |
| | 88 | Г | | П | | Π | Г | | Π | | |
| | 89 | | | | | | | | | Γ | |
| | 90 | | | | Г | | | | | | |
| | 91 | | | | | | | | | | |
| | 92 | | | | | | | | | | |
| | 93 | Г | 1 | \vdash | \vdash | \vdash | 1 | I^- | T | | |
| | 94 | | \vdash | T | \vdash | П | Т | Т | \vdash | | |
| | 95 | t^- | | T | T | \vdash | T | H | t | \vdash | |
| | 96 | \vdash | \vdash | T | \vdash | Н | Т | Т | \vdash | Т | |
| _ | 97 | \vdash | \vdash | \vdash | \vdash | \vdash | \vdash | \vdash | \vdash | \vdash | |
| \vdash | 98 | +- | \vdash | \vdash | \vdash | \vdash | | \vdash | \vdash | \vdash | |
| <u> </u> | 99 | \vdash | \vdash | \vdash | - | \vdash | \vdash | \vdash | \vdash | — | |
| | 100 | - | | | - | | | | - | | |
| | 100 | <u></u> | | <u></u> | | | | L | <u> </u> | | |

| Cla | Date | | | | | | | | | |
|--------------|-------------------|--------------------------------------------------|----------|----------|----------|--------------|--------------|----------------|----------|----------------|
| Final | Original | | | | | | | | | |
| | 101 102 103 | | | | | | | | | |
| | 102 | | | | | | | | | |
| | 103 | | | | | | | | | |
| | 104 | | | | | | | | | |
| • | 105 106 | | | | | | | | | |
| | 106 | | | | | | | | | |
| | 107 | | | | | | | | | |
| | 108 | \Box | | | | | | | | _ |
| | 109 | | | | | | | | | _ |
| | 110 | | | | | | | | | \blacksquare |
| | 111 | | | | | | _ | | | |
| | 111 112 113 | H | _ | \vdash | | | H | \vdash | _ | \square |
| | 113 | H | \vdash | | | \vdash | - | | <u> </u> | |
| <u> </u> | 114 115 | | - | \vdash | | | | \vdash | | \vdash |
| | 116 | <u> </u> | \vdash | | <u> </u> | | | | - | |
| | 117 | | \vdash | | | | _ | \vdash | | |
| | 117 118 | - | - | - | | | \vdash | \vdash | - | - |
| | 110 | \vdash | - | | | | \vdash | | _ | |
| | 119 120 121 | - | | | | | \vdash | | \vdash | \dashv |
| | 121 | | - | | | - | ┢ | - | \vdash | \dashv |
| | 122 | - | | | | | \vdash | | \vdash | \neg |
| | 122 123 124 | | | | | | | | Г | |
| | 124 | | \vdash | | | | Г | | \vdash | \neg |
| | 125 | | | | _ | | Г | | | |
| | 126 | | | | | | | | Г | |
| | 125 126 127 | | | | | | | | | |
| | 128 | | | | | | | | | |
| | 128 129 130 | | | | _ | _ | <u> </u> | | | |
| | 130 | | | | _ | | _ | L | | Ш |
| | 131 132 | | <u> </u> | | <u> </u> | <u> </u> | _ | | | |
| ļ | 132 | | | | <u> </u> | | <u> </u> | | | _ |
| | 133 | _ | _ | ļ | | ļ | | | <u> </u> | |
| ļ | 134 135 | - | - | | | <u> </u> | - | <u> </u> | _ | \square |
| | 135 | L | <u> </u> | ⊢ | ⊢ | <u> </u> - | <u> </u> | <u> </u> | _ | - |
| ļ | 136 137 | _ | _ | _ | - | <u> </u> | _ | \vdash | ┝ | |
| | 138 | \vdash | \vdash | ├ | ┝ | \vdash | | ⊢ | | Н |
| | 139 | - | <u> </u> | ├— | \vdash | | | - | | |
| | 140 | | | | | | ┝ | ┢ | \vdash | Н |
| \vdash | 141 | \vdash | \vdash | \vdash | \vdash | \vdash | \vdash | \vdash | \vdash | H |
| | 142 | \vdash | \vdash | | \vdash | | \vdash | | | Н |
| | 143 | T | \vdash | 1 | \vdash | ┢ | | T | - | |
| | 144 | | | | | | Т | Г | | П |
| | 145 | | | Т | | <u> </u> | Г | | | |
| | 146 | | | | | | | | | |
| Ĺ | 147 | | | | | | | | | |
| | 148 | | | | | Ľ | | | | |
| | 149 | | | | | | | | | |
| | 150 | L | | | | | | | | |